

AMENDMENT TO THE CLAIMS

Upon entry of the present amendment, the status of the claims will be as is shown below.

This listing of claims replaces all previous versions and listings of claims in the present application.

LISTING OF THE CLAIMS

1 (previously presented). A method for measuring reaction results of a sample using a biosensor having two working electrodes and one reference electrode, comprising:

sequentially supplying respective working electrodes with a power supply voltage and measuring a time interval from when an amount of current flowing in a first working electrode begins to be detected until a time when an amount of current flowing in a second working electrode begins to be detected;

displaying an error message when the measured time interval exceeds a predetermined critical range;

sequentially re-supplying the respective first and second working electrodes with the power supply voltage when the measured time interval is within the predetermined critical range, and re-detecting the amounts of current flowing in the respective first and second working electrodes;

reading concentrations corresponding to the amount of current from a memory and calculating an average value from the read concentrations; and

checking whether a difference between each of the concentrations read from the memory and an average value exceeds a predetermined critical value to display one of an error message and the calculated average value.

2. (canceled).

3. (currently amended) An apparatus for measuring reaction results of a sample using a

biosensor having two working electrodes and one reference electrode, comprising :

at least one operational amplifier that detects an amount of current flowing in respective working electrodes and outputs an amount of current as voltage values, wherein a non-inverting terminal of the operational amplifier is connected to a voltage source and an inverting terminal of the operational amplifier is connected to a first switch;

a second switch that selectively grounds the reference electrode of the biosensor;

a third switch that selectively grounds one of the two working electrodes of the biosensor;

a display that displays at least one of reaction results of the sample and an error message;

and

a microprocessor configured to control at least one of the first, the second and the third switch to supply the two working electrodes with a power supply voltage, to detect the current in the first and second working electrodes, to examine whether the sample reaches the two working electrodes, to measure a time interval from when an amount of current flowing in a first working electrode begins to be detected until an amount of current flowing in a second working electrode begins to be detected, to display an error message when the measured time interval exceeds a predetermined critical period, to resupply the first and second working electrodes with the power supply voltage by controlling at least one of the first switch, the second switch and the third switch when the measured time period is within the predetermined critical range, to redetect respective amounts of current flowing in the first working electrode and the second working electrode, to read concentrations corresponding to detected voltage values, to calculate an average value from the read concentrations, to check whether a difference between each of the read concentrations and the average value exceeds a predetermined critical value, and to display one of an error message when the difference ~~different~~ exceeds the predetermined critical value or the calculated average value when the difference ~~different~~ is within [[a]] ~~the~~-predetermined critical value .

4 (previously presented). The method for measuring reaction results of a sample as set forth in claim 1, further comprising checking whether the sample is properly inserted.

5 (previously presented). The method for measuring reaction results of a sample as set forth in claim 4, further comprising displaying an error message when the sample is not properly inserted.

6 (previously presented). The method for measuring reaction results of a sample as set forth in claim 1, further comprising providing an incubation time before resupplying the two working electrodes with the power supply voltage.

7 (canceled).

8 (canceled).

9 (previously presented). The apparatus for measuring reaction results of a sample as set forth in claim 3, further comprising a memory having a table of concentrations corresponding to the voltage values or amount of current detected from the two working electrodes.

10 (previously presented). The method of claim 1, further comprising:  
comparing the amount of current flowing in the first working electrode and the amount of current flowing in the second working electrode and displaying an error message when a difference between the amount of current flowing in the first working electrode and the second working electrode exceeds the predetermined critical range.